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FIG. 1A

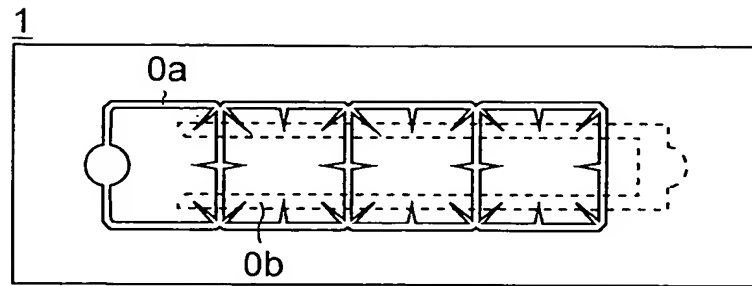


FIG. 1B

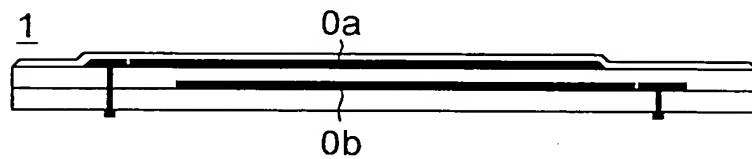


FIG. 1C

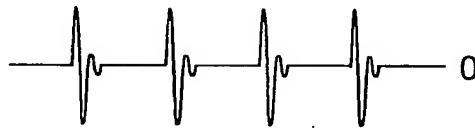


FIG. 1D

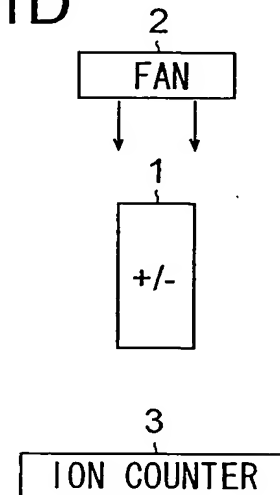


FIG. 1H

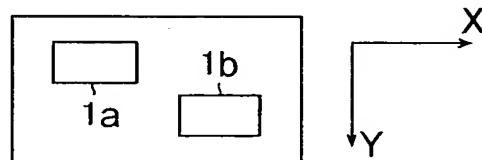


FIG. 1E

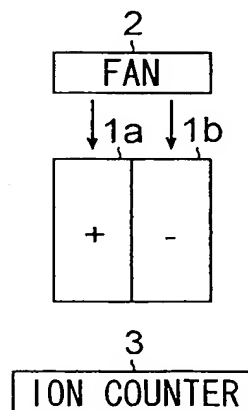


FIG. 1F

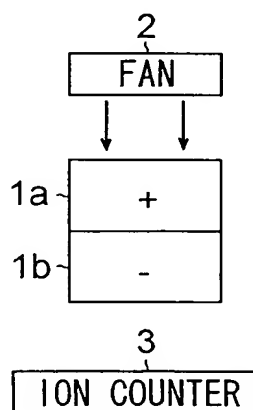


FIG. 1G

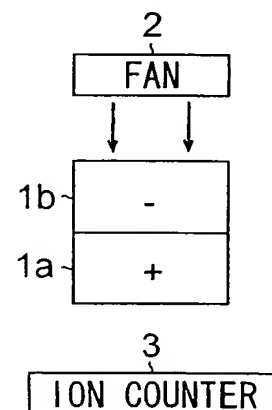


FIG.2A

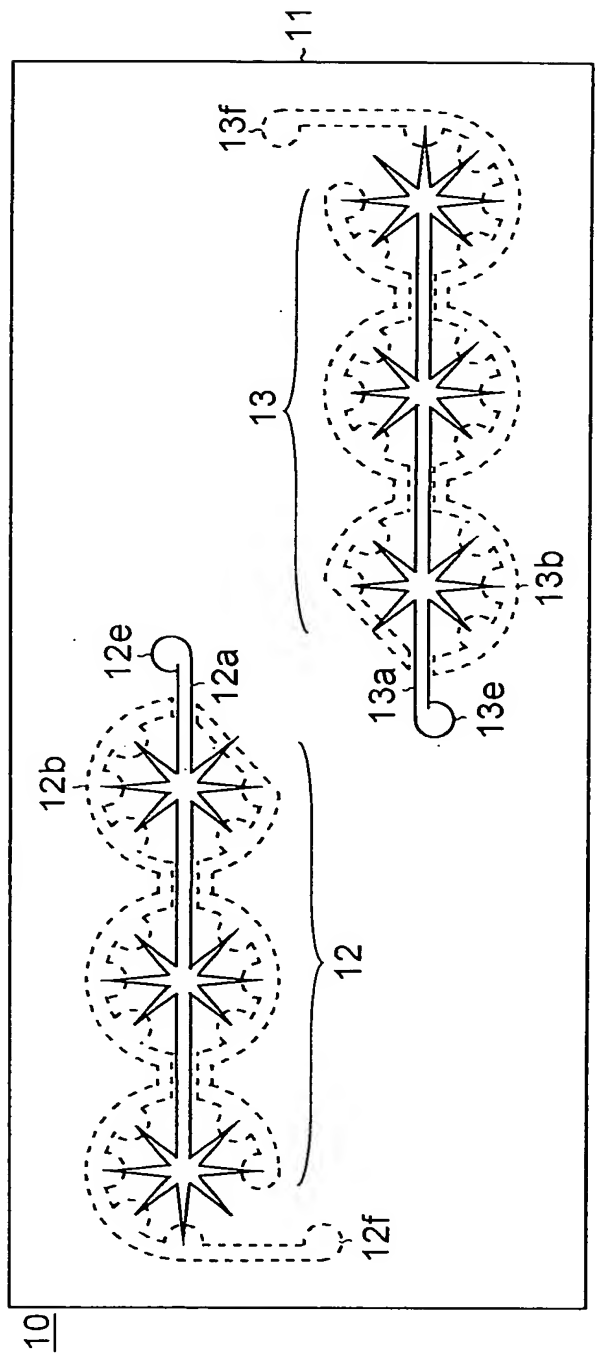


FIG.2B

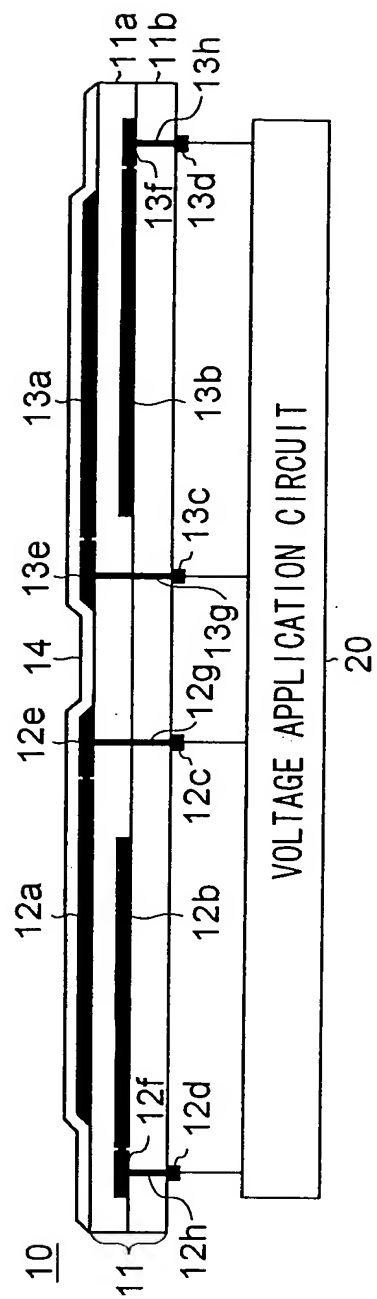


FIG.3

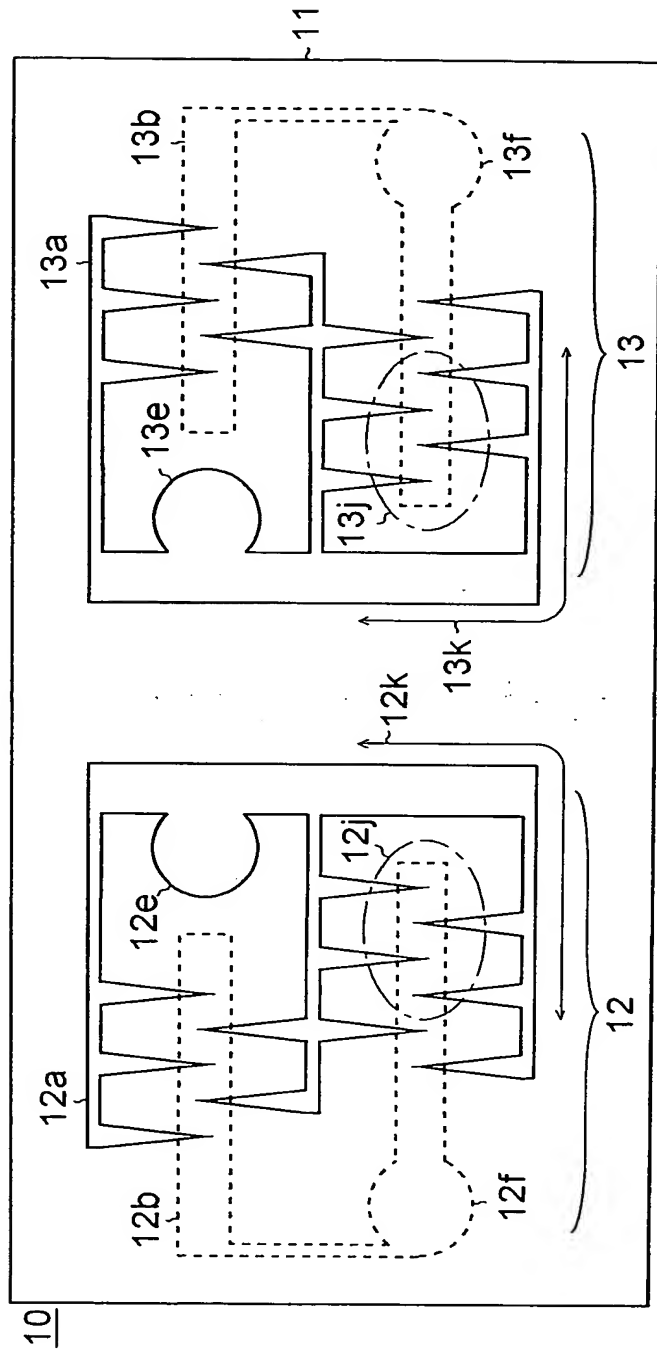


FIG.4A

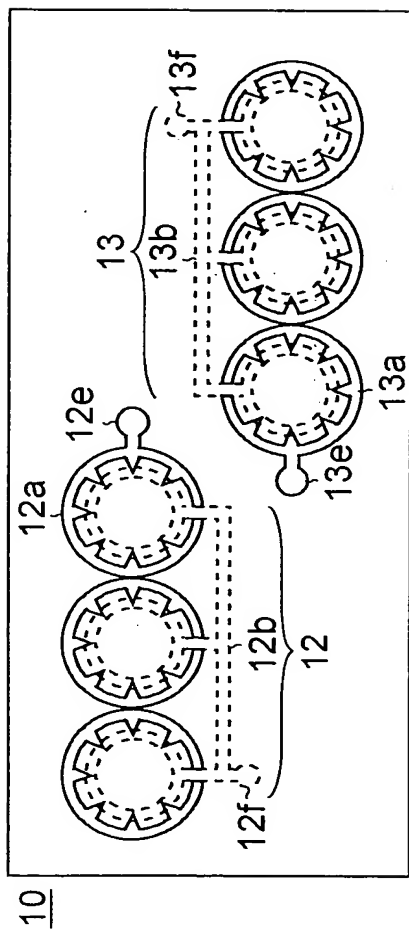
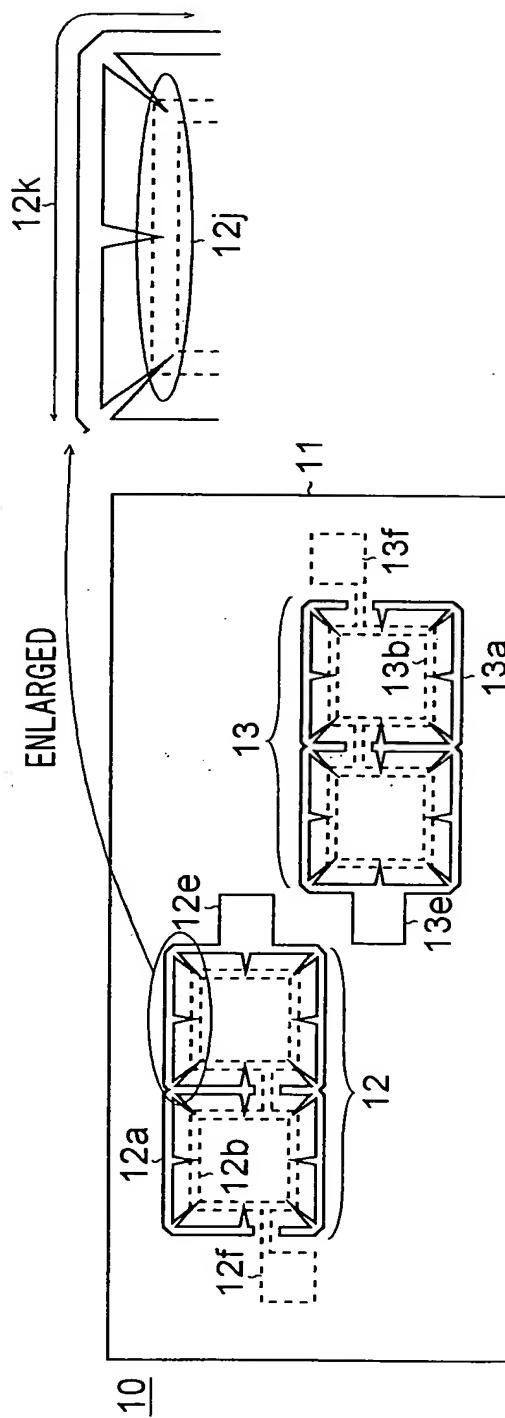


FIG.4B



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FIG.5A

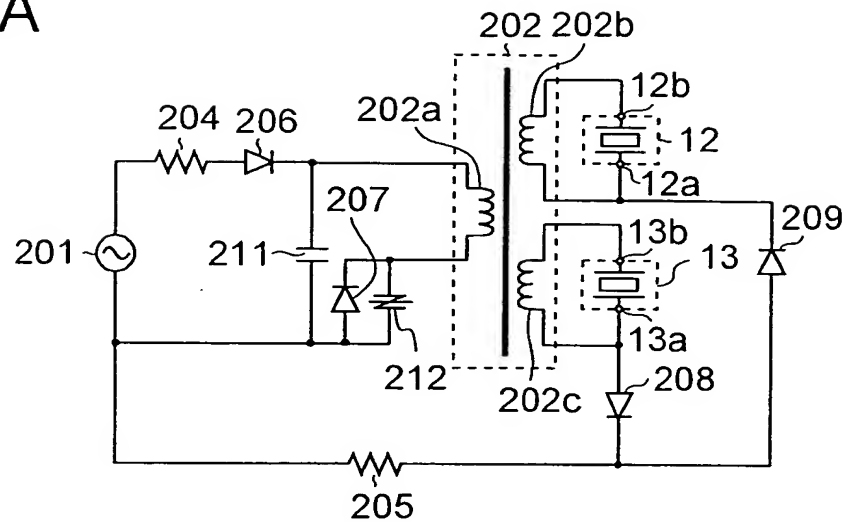


FIG.5B

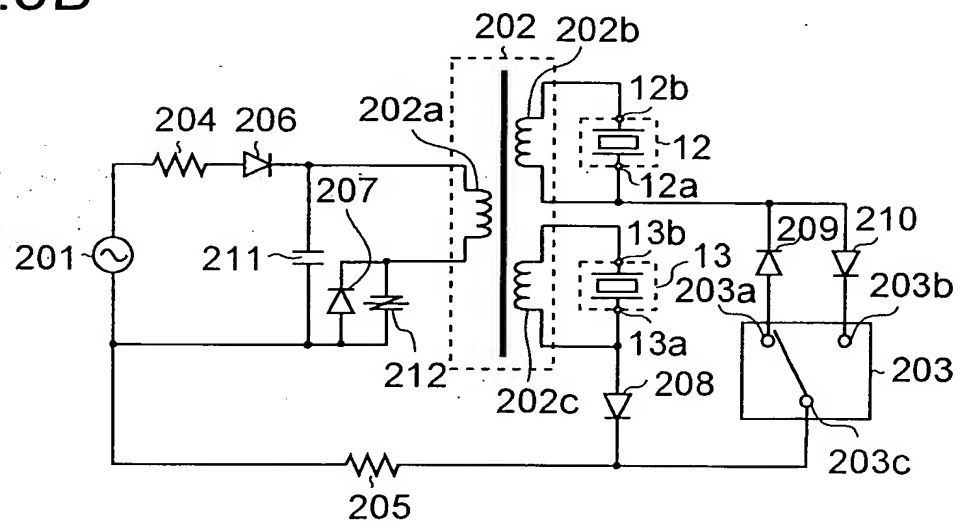


FIG.5C

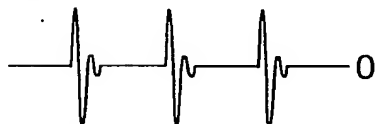


FIG.5F

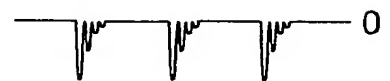


FIG.5D

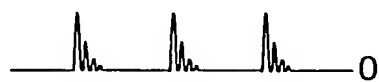


FIG.5G



FIG.5E



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FIG.6A

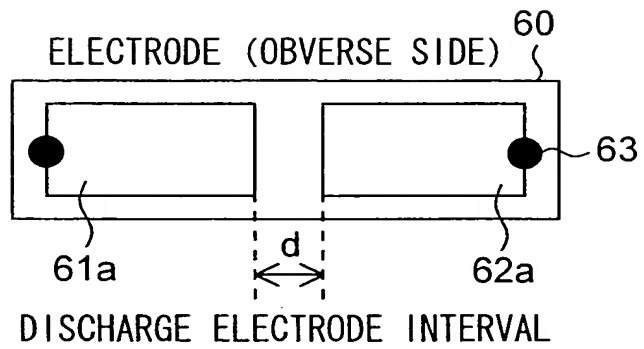


FIG.6B

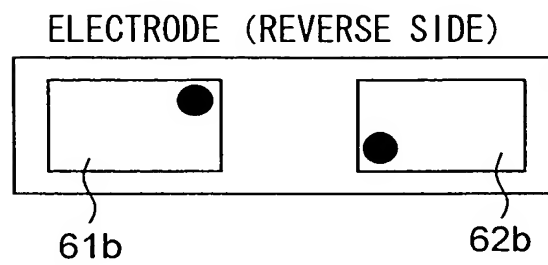


FIG.6C

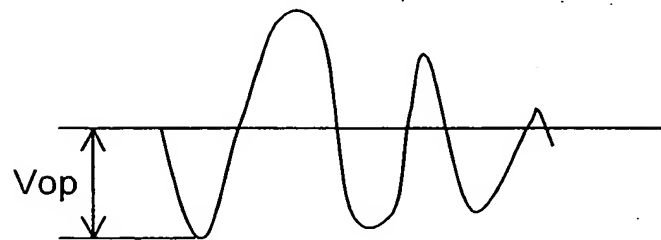
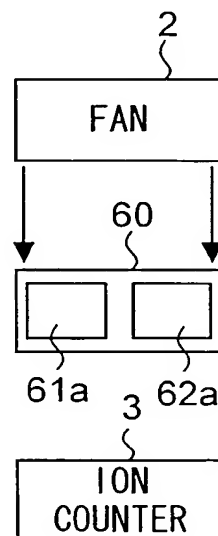


FIG.6D

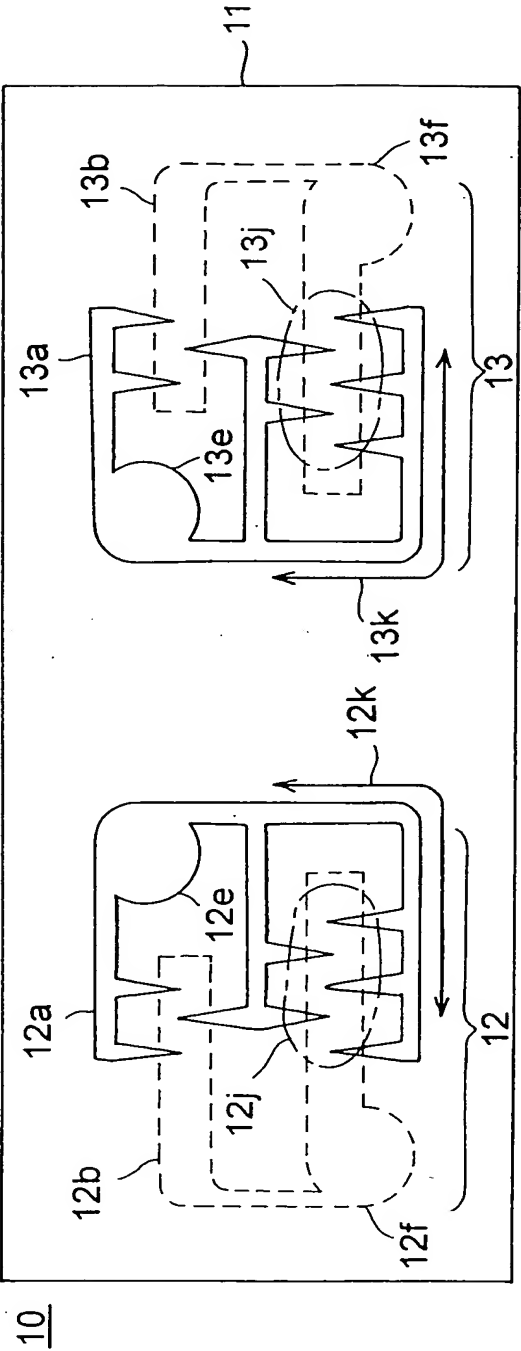


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FIG.7

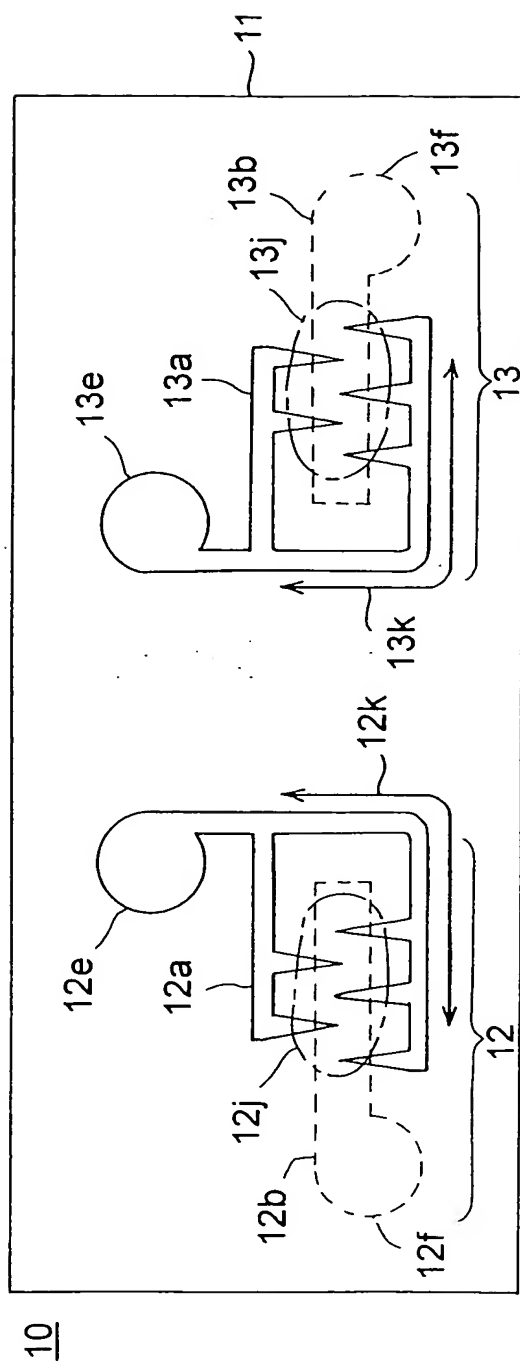
DISCHARGE ELECTRODE INTERVAL d [mm]	ION CONCENTRATION [ions/cc]		SPARK OCCURRENCE
1	POSITIVE ONLY		SPARKS OCCUR
	NEGATIVE ONLY		
	SIMULTANEOUS [+ / -]		
3	POSITIVE ONLY		SPARKS OCCURRED FOR FIRST SEVERAL MINUTES
	NEGATIVE ONLY		
	SIMULTANEOUS [+ / -]		
5	POSITIVE ONLY	200,000	NO SPARKS
	NEGATIVE ONLY	260,000	
	SIMULTANEOUS [+ / -]	380,000 ; 160,000	
8	POSITIVE ONLY	700,000	NO SPARKS
	NEGATIVE ONLY	550,000	
	SIMULTANEOUS [+ / -]	700,000 ; 550,000	

FIG. 8



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FIG. 9



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FIG. 10

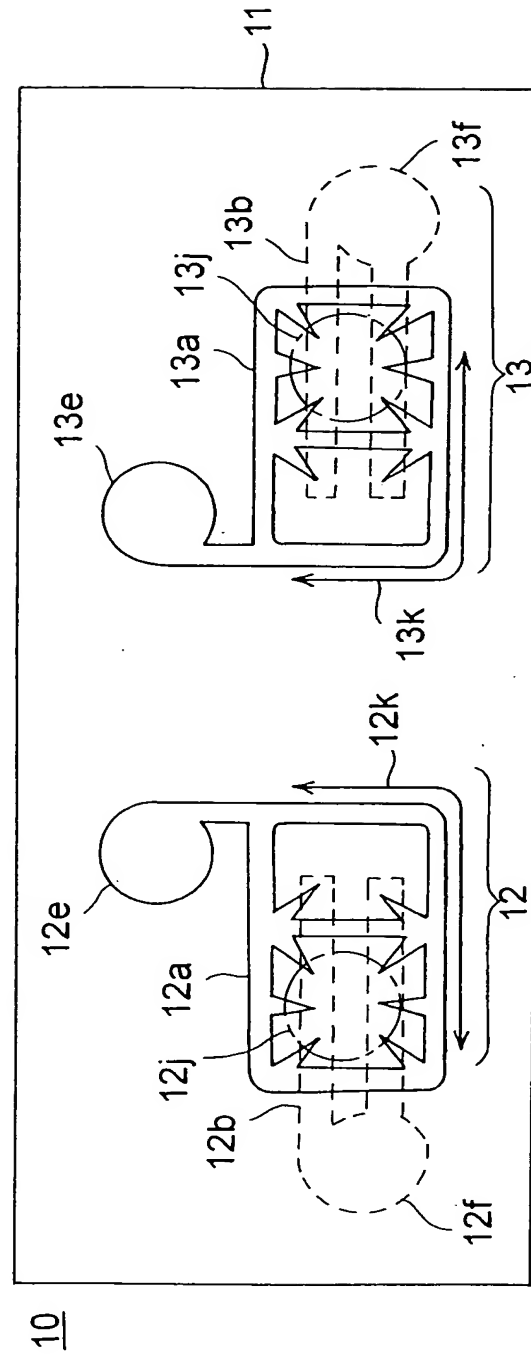
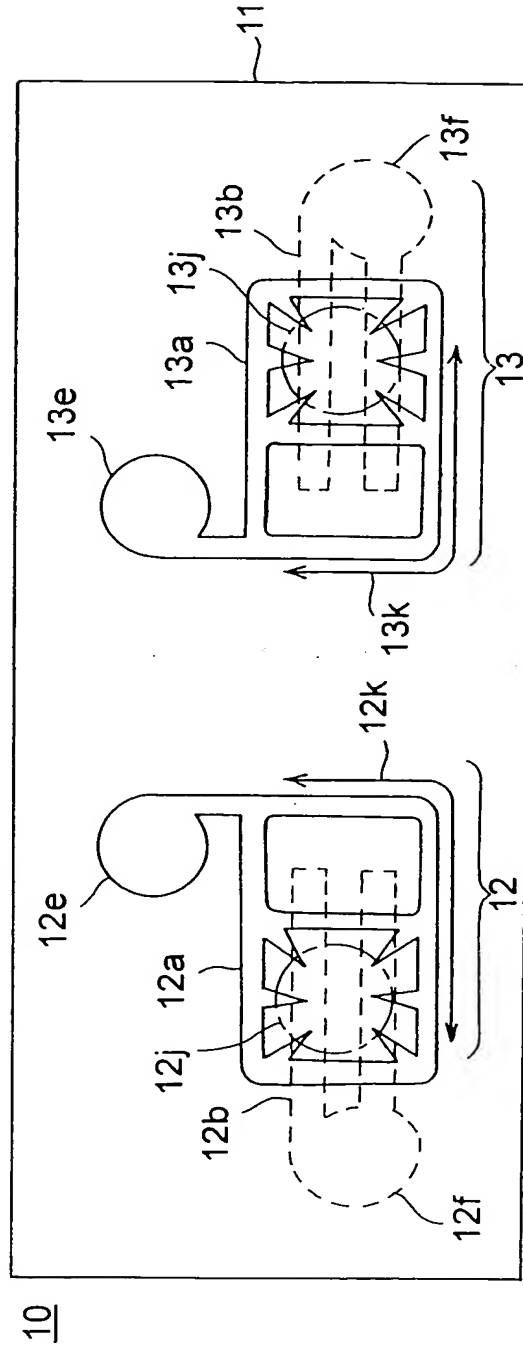


FIG. 11



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FIG. 12

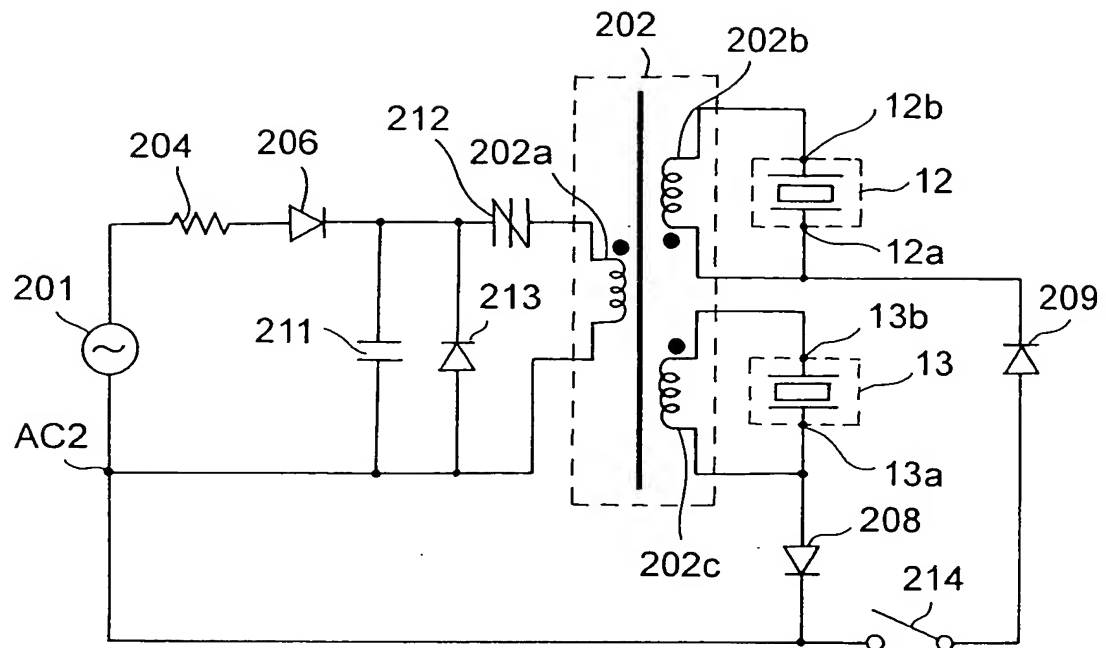


FIG. 13

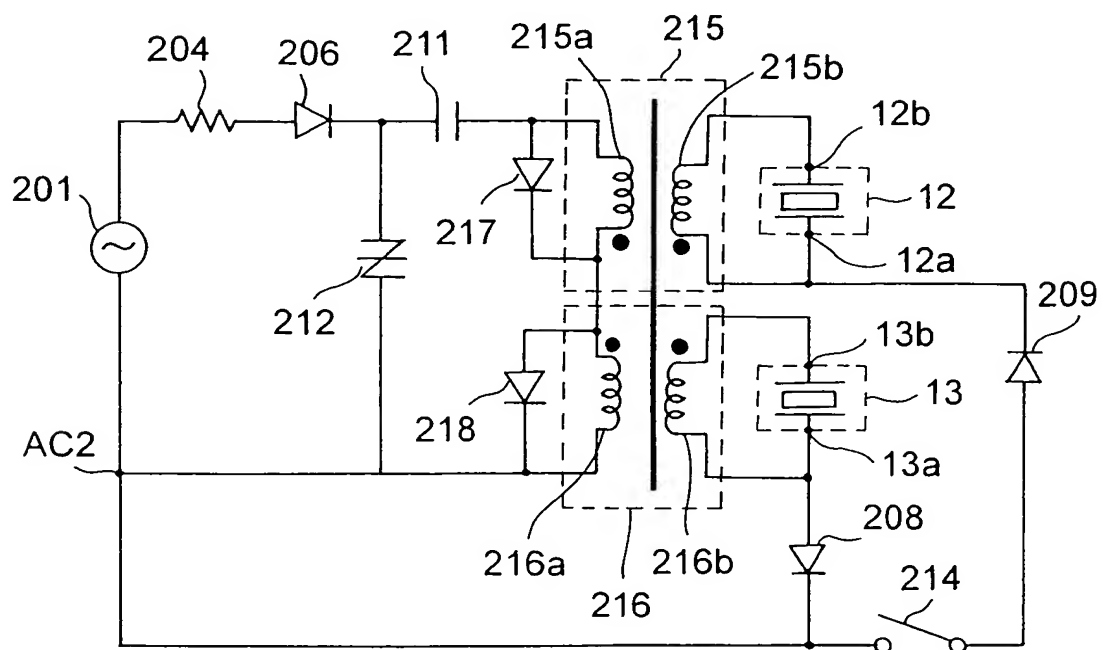


FIG.14A

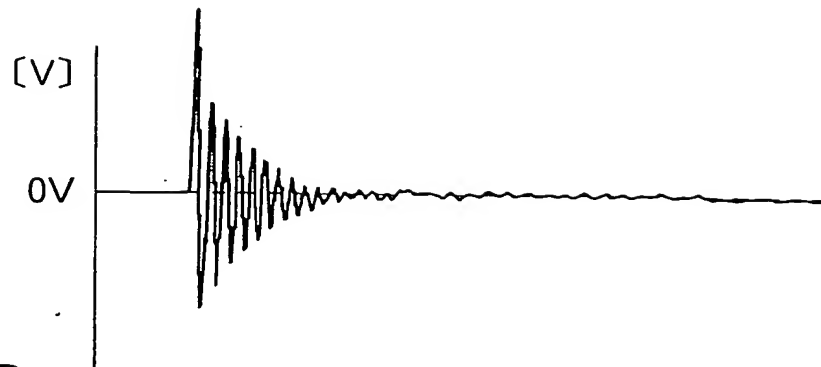
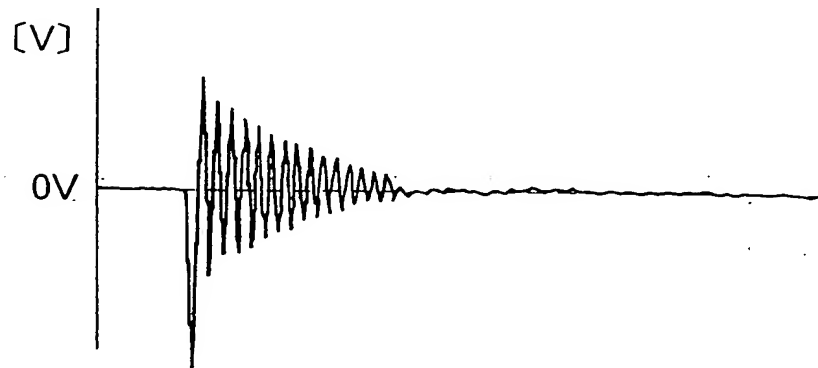


FIG.14B



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FIG.15A

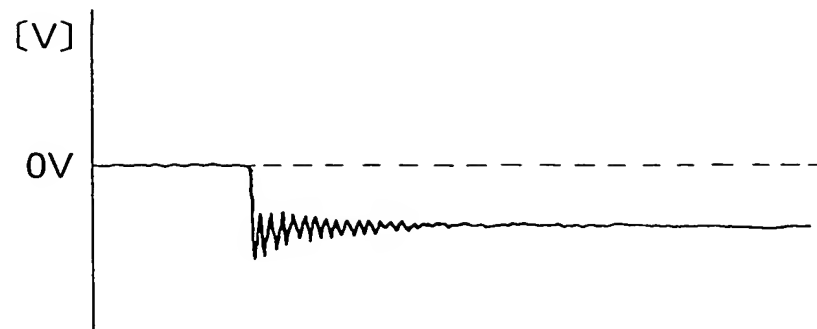
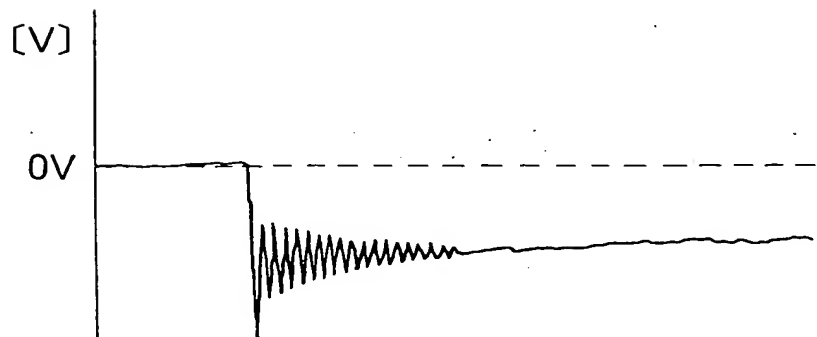


FIG.15B



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FIG.16A

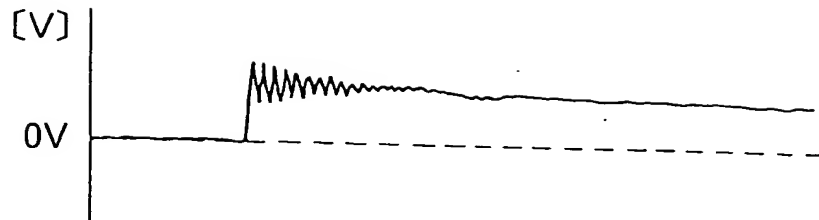
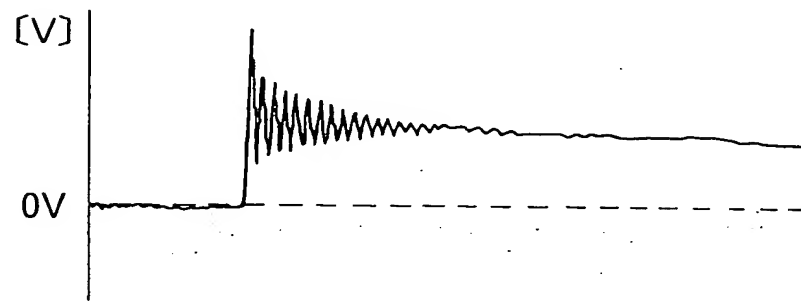


FIG.16B



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FIG.17A

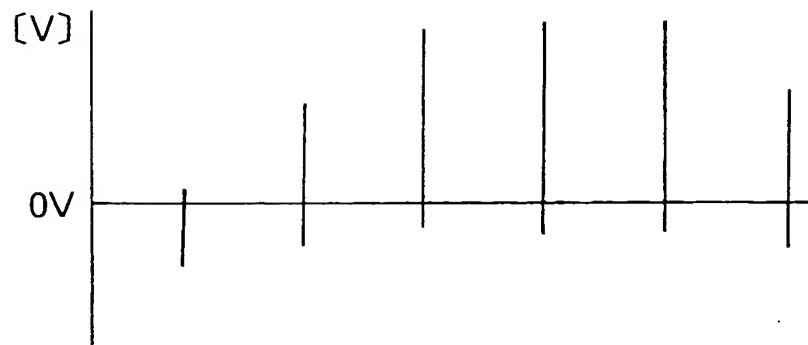
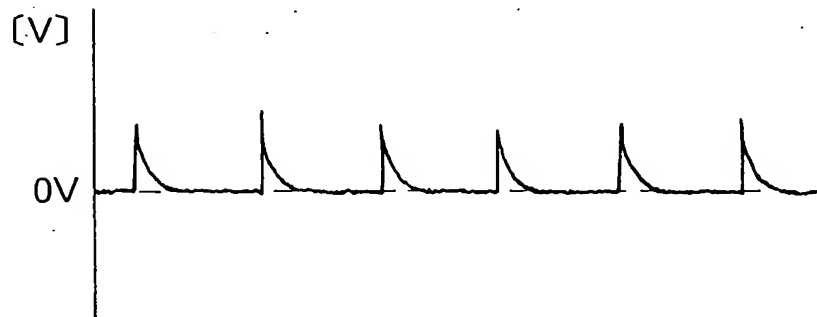


FIG.17B



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FIG.18A

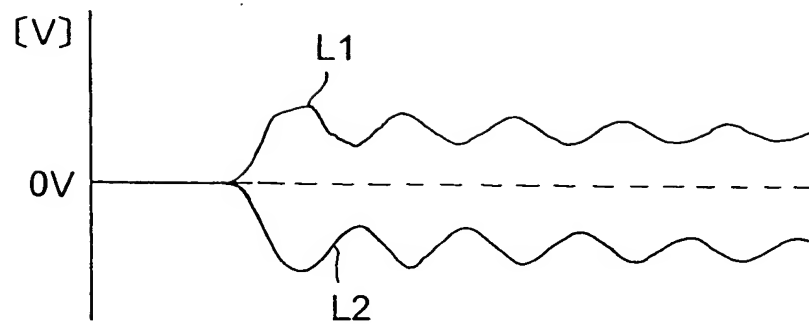
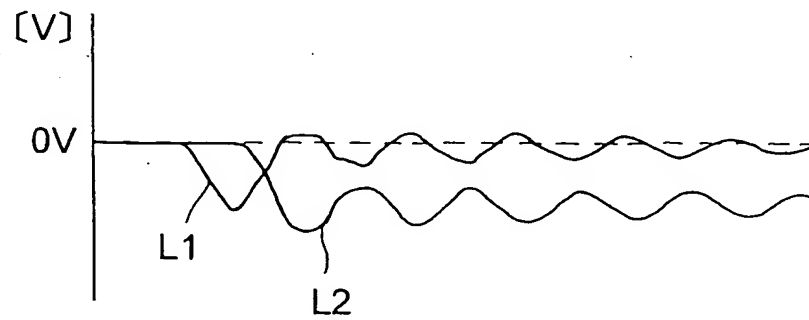


FIG.18B



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FIG. 19

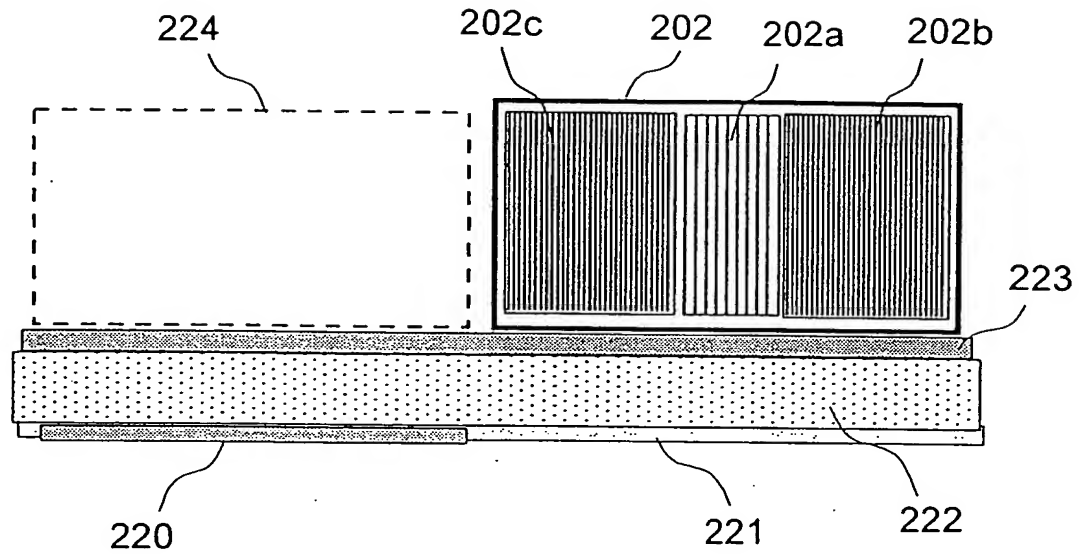


FIG. 20

